

CEA-tr-4-351 Unc1.

POLARISATION DE PLASMA ET INTERACTION DES PARTICULES
CHARGEES. (Polarization and Interaction of Charged
Particles in Plasmas). G. Ecker and K. G. Muller.
Translated into French from Z. Physik 153: 317-30(1958).
24p.

Particle Physics; Thermonuclear; Translations MC-20

C-20 NP NSA Dep.(mc).

ELECTRONIC STATES in Refractory Compounds
with the Sodium Chloride Structure,
by Heinz Bilz, 25 pp. FOR OFFICIAL USE ONLY
GERMAN, por, Z fur Physik, Vol CLIII, 1958,
pp 338-358. 5699801
FSTC 301-T65-664

A & C L 376 2

Sci - Chem, Elec
Mar 66

297,813

A Causal Theory for Waves Which Propagate at a
Velocity Greater Than That of Light, by
Helmut Schmidt, 15 pp.
GERMAN, per, Zedtschrift fur Physik, Vol 161,
1958, pp 408-420.
Dept of Navy MIC Trans 3059

Sci/Phys
July 70

on Very-Short-Wave UV Light from a Tungsten
Incandescent Cylindrical Rhenium Lamp, II.
Influence of Absorption and Ionization in
the Gas, by W. Bernlik, H. Pohl,
and H. Roselli, by W. Bernlik, H. Pohl,

GERMAN, part, Z. fur Physik, Vol. 101, p.
1959, pp. 392-407, 163-183.

C1186

Sci. & Eng.
Jul 62

207, 607

Generation of a Beam of Hydrogen Atoms Having
Unidirectional Spin. Analysis of the Beam.
Proof of Maintenance of Polarisation, by
G. Clausnitzer, 23 pp.

GERMAN, per, Z. Physik, Vol C.III, 1959,
pp 609-629.

XEROX
AERE-Lib/tr-815

Sci - Phys

Jul 59

92,052

Statistics of Ignition Lag, by H. Sohst.
GERMAN, per, Zeit fur Physik, Vol 154, 1959,
pp 618-632.
CISGB
C.E. Trans 5217

Sci-Prop & Fuels
Feb 70

401,729

Interpretation of the Anomalies of the Optical
Properties of Thin Metal Films, by Erwin David,
24 pp.

BERMAN, per, Z fuer Physik, Vol CXIV, 8 Aug 1959.

CIA 9071183

Sci - Phys

3ep 60

127,131

The Use of Quartz Crystal Oscillators in Weighing
Thin Films and in Microweighting, Gunther
Sauerbrey, 14 pp.

GERMAN, per, A Z fuer Physik, Vol CLV, No 2,
1959, pp 206-222.

SLA 60-18069

Sci

196, 495

May 62

Recombination and "Minus" Continuous Spectrum of
the Oxygen Atom, by G. Boldt, 26 pp.

GERMAN, per, Z fuer Physik, Vol CLIV, 1959,
pp 319-329.

AEC Tr-4129

Sci - Phys
14 Oct 60

128,921

Boldt, G.

RECOMBINATION- AND "MINUS"-CONTINUUM OF NITROGEN ATOMS (Rekombinations- und "Minus"-Kontinuum der Stickstoffatome). [1962] [22]p. (Foreign text included) 5 refs.

Order from: SLA \$2.60

62-16029

Trans. of Zeitschrift für Physik (West Germany) 1959, v. 154 [no. 3] p. 330-338.

DESCRIPTORS: *Plasma physics, *Nitrogen, Ions, Spectrographic analysis, Absorption, High temperature research, Atoms.

The continuum emitted by a wall-stabilized arc burning in nitrogen is measured for temperatures between 10,500 and 15,000 K in the wavelength region from 4300 to 6300 Å. After subtraction of the calculated free-free continuum of the electrons in the field of the post (Physics, TT, v. 9, no. 4)

62-16029
1. Title: Continuum.
1. Boldt, G.

(over)

Office of Technical Services

Hall-Effect of Bismuth Layers Condensed by Ax Quenching,
by Werner Buckel, 9 pp.
GERMAN, per, Z fuer Physik, Vol CLIV, 1959, pp 474-485.
9691160

ACSI I-2493-K
ID 2232439

Sci - Phys
Mar 64

251,371

The Optical Absorption of Thallium Chloride, D.
Albert Zernigroba, 20 pp.

ZERNIGROBA, A., Z. Angew Physik, Vol CLIV, 1959.
pp 495-511. 9093433

AMC SCL-T-398

Sci - Mayo
May 62

193, 712

Calculation and Measurement of the Thermal
Conductivity of Nitrogen Up to 13000°K, by F.
Burhorn, 43 pp.

GERMAN, per, Z Physik, Vol CLV, 1959, pp 42-58.

AEC Tr-30990

Sci - Phys
May 60

117,471

The Diffusion of zinc in Zinc Oxide, by
R. Pohl, 9 PP.
GERMAN, per, Zeitschrift fur Physik,
155, 1959, pp. 120-128.
*CFSI TT 70-58072
AVAILABLE FROM NBS ONLY

Sci/cion

Ver 70

The Use of Oscillator Crystals in the Weighing
of Thin Layers and in Microweighting, by
Gunter Sauerbrey, 20 pp.
GERMANY, per, Z Physik, No 155, 1959, pp 206-222.
AEC/AI-Tr-63

Sci/Phy
Mar 71

The Experimental Determination of Stacking-Fault Energies in Cubic Face-Centered Metals, by A. Seeger, R. Werner, & H. Wolf, 13 p.

GERMAN, per Zeit fur Physik, 1959, Vol ^C III, No 2, pp 247-262.

OTS 61-18463

32L356

AT&T

Sci
Apr 60
Vol III, No 2

713611

X-Ray Study of Dislocations in Germanium, by V. Gerold,
F. Meier,

GERMAN, per, Z/ Physik, Vol CLV, 1959, pp 387-394.

ATS 479-FJ

Sci - Phys

Aug 60

123,928

How Valid is the Exponential Law for α -Decay?,
by Joachim Petzold,
GERMANY, per, Zent. fuer Physik, Vol 155, No 3,
pp 422-432, 1959 9230162
AEC ORNL-Tr-705

Sci-Phys
Nov 65

291,868

Investigation of the Electrical Conductivity of Zinc Oxide, by J. Doren, J. Haber, T. Wilkowa, 19 pp.

GERMAN, per, Z. für Physik, Vol CLV, No 4, 1959,
pp 453-464.

SLA 60-16807

Sci

Apr 62

190, 245

Vol IV, No 6

Measurement of Temperature Dependence of
Ferromagnetic Hall-Effect of Ni Evaporation
Layers in Determining Curie-Point, by
L. Reimer.

GERMAN, per, Zeitschrift fuer Physik, Vol CLV,
1959, pp 524-530.

ERDL Ft Belvoir
T-1179

Sci - Phys

155, 246

Jun 61

Absorption of ZnO Crystals in the Infrared, by Reinhold Arneth, 13 p.
FOR OFFICIAL USE ONLY
GERMAN, per, Zeitschrift fuer Physik,
Vol CLV, 1959, pp 595-608, 9697728
ISIC-413

Sci-Phys
Mar 66

294,397

Pinched Xenon High-Pressure Discharges of High
Current Density, by A. Bauer, P. Schulz.
GERMAN, per, Zeit Phys, Vol LV, 1959,
pp 614-627.
NSA ID # 10,270

U. S. GOVERNMENT USE ONLY

Sci-Phys

Dec 66

314,948

The Three-Dimensional Stabilization of Charge Carriers in a Quadrupole Field, by H. Fischer,
55 pp.

CONFIDENTIAL USA ONLY
GERMAN, per Z. fur Physik, 156, 1959, pp 1-26.
NSIC-71S

CSIRO/ No. 9507

EE
Sci/Pay
Jan 63

552,457

A New High-Index Material for Dielectric
Ultraviolet Mirrors, by C. Honch, K. Krebs,
GERMAN, p. 2, Z. Angew Physik, Vol CLVI, 1959, pp 117-124.
NASA TT F-9272

Sci-Phys
May 68
U.S. GOVERNMENT ONLY

280,183

Some Notes on the Theory of Particle Size
Distribution in Aerosols, by K. H. Koppe, 7 pp.

GERMAN, per, Z fuer Physik, Vol CLVI, 1959,
pp 211-220.

CSIR 190

183, 569

Sci - Phys

Mar 52

Polymorphism of Arsenic , by K. Plieth, I. N.
Stranski, 22 pp.

GERMAN, per, Zeitschrift fur Physik, Vol CLVI,
No 3, 1959, pp 360-381. (920207)

A.C.S.I.L. #1 Tr 1281

Sci - Chem
Apr 63

226, 531

A Contribution to the Investigation of
Reciprocal Lattices of Single Crystals by
Means of Kikuchi-Patterns, by W. D. Plocke,
Y. Sakaki.

GERMAN, per, Z fur Physik, Vol CLVI, 1959,
pp 534-554. 9231790
AEC-UCRL-Tx-1227

Sci - Elec
Mar 66

296,508

Influence of Cathode Sublimation on the Energy
Balance of a High Current Carbon Arc, by
E. Hinrichs, E. Wienecke.
GERMAN, per, Zeit Physik, Vol 56, 1959, pp 592-
597.

BISI 8193

Sci-Mat
Jul 70

A Portable Universal Detector for Atomic Beams,
by H. Friedmann, 7 pp.
GERMAN, per, Z fuer Physik, Vol CLVI, No 4, 1959,
pp 598-602, 922189
AEC-NP-Tr-1103

Sci-Phys
May 64

259,713

On the Characteristics of Cylindrical Arcs,
by H. Maeker, 71 pp.

GERMAN, per, Z Physik, Vol CLVII, 1959,
pp 1-29.

AEC Tr-3995

Sci - Phys
May 60

117,473

Small-Angle Scattering During Collision Between
Neutral Atoms, by H. Pauly.
GERMAN, per, Z fuer Physik, Vol CLVII, 1959,
pp 54-64.
NASA TT F-9179

Sci-Phys
Jan 65
U.S. GOVERNMENT ONLY

270,983

Structure and Resistance of Very Greatly Distorted Copper
Layers at Low Temperatures, by K Ernst Feldtkeller, 12 pp.
GERMAN, p., Z fuer Physik, Vol CLVII, 1959, pp 65-78.

ACSI I-2493-L
ID 2232439

Sci - Phys
Mar 64

251,372

Measurement of the False-Order Energy in Quench-Condensed
Copper at Low Temperature, by Winfried Monch, Wilhelm
Sander, 7 pp.
GERMAN, per, Z fuer Physik, Vol CLVII, 1959, pp 149-158.
9691139

ACSI I-2493-M
ID 2232439

Sci - Phys
Mar 64

251,373

The Influence of Lattice Distortions on the Optical Properties
of Metal Layers, by Jorg Haase, 18 pp.
GERMAN, per, Z fuer Physik, Vol CLVII, 1959, pp 166-188.
X00X 9691304

ACSI I-2493-N
ID 2232439

Sci - Phys
Mar 64

251,374

Magnetic Susceptibility of the Electrons in
Silicon, Germanium and Indium-Arsenide, by
D. Goist, 18 pp.

GERMAN, per, Z fuer Physik, Vol. CLVII, 1959,
pp 335-361. 9074579

ACSL 1300

Sci - Phys

Mar 61

145,058

Investigation of the Electrical Conductivity
of Zinc Oxide, by J. Haber.

GERMAN, per. Z. Phys., Vol. 155, No. 4, 1959
pp 453-464
GB 72

Sci -
Aug 67

337-501

Polarization of Nuclear Resonance Fluorescence
in Germanium 74, by O. Zehnder.
GERMAN, per, Zeit fur Physik, Vol 157, 1959,
pp 219-231.
NKC-69-12867-204

Sci-Phys
Sept 69

391,265

Investigation of Direct Pair Formation by
Electrons, by von L. Criegee.
GERMAN, per, Z für Physik, Vol 158, 1960,
pp 433-443.
*AMC SIAC

Sci - Electrodics
Aug 67

Measurement With a Crystal Spectrometer of Some Soft
Gamma Lines in the Neutron Capture in Europium, by
Otto Schult, 48 pp.

GERMAN, per, Z Physik, Vol CLVIII, 1960, pp 444-470.

9089621 ABC UCRL Tr-792(L)

Sci - Phys
Aug 62
List 71

206,096

Supraconducting of Vapor-Sprayed Lead Layers With and
Admixture of Gadolinium, by Klaus Schwidtal, 7 pp.
GERMAN, per, Z fuer Physik, Vol CLVIII, 1960, pp 563-571.
9691126

ac SI I-2493-O
ID 2232439

Sci - Phys
Mar 64

251,375

Ionic Conductivity of Zone-Refined Alkali Halides,
by Helmut Grundig. 25 pp.
GERMAN, per, Zeitschrift fur Physik, No 158, 1960
pp 577-594.
Dept of Navy tr 5397 ONI tr 2402

Sci/Physics
Jul 67

329,379

The Photochemical Behavior of Oxygen-Containing
Complexes in Alkali Halide Crystals, by F. Kerkhoff.
GERMAN, per, Z fuer Physik, Vol CLVIII, No 5,
1960, pp 595-606.
NASA TT F-8860

Sci-Phys
May 64
U.S. GOVERNMENT ONLY

259,733

On the Photoelectric Effect of thin Metallic
F.lms, by Friedbold Baumann, 112 pp.

GERMAN, per, Z fuer Physik, Vol X CLVIII,
No 5, 1960, pp 607-622.

SLA 60-18071

1961 883

Sci

May 62

H. Pick

Color Center-Associates in Alkalihalogenides.
GERMAN, per, Zeitschrift fuer Physik, Vol 159,
1960, pp 69-76
NTC 72-12664-20F

sept 72

Absorption Spectrum and Zeeman Effect of
Crystalline Lysprosium Salts at Low Temperatures,
by G. Gramberg.

GERMAN, per, Zeit fur Physik, Vol CLIX, 1960,
pp 125-148. 9203648

AEC/Tr 5593

Sci - Phys

Mar 63

2.26, 579

Fleischmann, R. and Witt, R.
INVESTIGATION OF THE STATE OF POLARIZATION
OF LIGHT ENTERING THE THINNER MEDIUM UPON
TOTAL REFLECTION BY MEANS OF SCATTERING
PARTICLES. [1961] 15p. 8 refs.
Order from SLA \$1.60

61-16428

Trans. of Zeitschrift für Physik (West Germany) 1960,
v. 159, no. 3, p. 360-368.

DESCRIPTORS: *Light, *Polarization, *Carbon black,
*Particles, Reflection, Scattering.

The state of polarization of light entering into the
thinner medium upon total reflection is examined by
means of scattering particles. The results are in
agreement with theoretical expectations. The calcu-
lated value is obtained in particular for the ratio of the
longitudinal component to the component which is
perpendicular to the boundary plane. Carbon black
particles are used as scattering particles. A separate
(Physics--Optics, TI, v. 6, no. 5) (over)

61-16428

I. Fleischmann, R.
II. Witt, R.

180450

Office of Technical Services

Investigations of Drift Pair Formation by Electrons,
by L. Creigee.

GERMAN, per, Zeitschrift fuer Physik, vol. 159,
1960, pp. 433-443.
WTC 71-12955-20H

JULY 71

Properties of Ag₂Se Layers, by W. Sander.
GERMAN, per, Zeitschrift fuer Physik, Vol 159,
1960, pp 456-461.
NTC 71-14787-20L

CIA/FDD X Y - 983 17P

Feb 72

Lutz, Heinrich.
THE DECAY OF Gd¹⁵³. [1961] [26]p. 20 refs.
Order from SI A \$2.00 62-18972

Z. Physik, "Zeitschrift fur Physik (West Germany)"
1961, v. 159, p. 325-377.

*Gd¹⁵³, *IPPCOS; *Gadolinium, *Europium, *Radioactive decay, *Sodium-22 isotopes, *Electron capture, Crystals, Scintillation counters.

The electron capture decay of Gd¹⁵³ was studied by monitoring the radioactive source in three different crystals, caused to emit the gamma rays path into the lattice of a NaCl(4) crystal. The PE/NaCl conversion ratio was measured for disappearance into the 97.5 and 193 KeV level, respectively, and into the 172.5 level of Eu¹⁵³ (0.44, 0.02 and 0.65 - 0.3). These results were used to determine the disintegration energy of Nuclear Physics - Radioactivity, TI, v. 8, no. 9)
(over)

62-18972

H. Lutz, H.

Office of Technical Services

Mathematical Description of Cylindrically Symmetrical
Arcs, by G. Schmitz, J. Uhlenbusch.
GERMAN, per, X Z fuer Physik, Vol CLIX, 1960,
pp 554-562.
NASA TT F-8456

Sci - Phys -
Mar 64
U. S. GOVERNMENT ONLY

251,956

Theoretical Investigations of Vacancy Aggregates
in Noble Metals by Gottfried Schottky, 20 pp.

GERMAN per, Zeitschrift fuer Physik, No 159,
pp 584-601, 1960. 921 3662 - Ref on d46

APPROVED FOR RELEASE: Thursday, May 16, 2002

CIA-RDP84-0058

01250053-8

Sci - Phys
Oct 63

Higher States of Excitation of Color Centers,
by Fritz Lury, 20 pp.
GERMAN, per, Z fuer Physik, Vol CLX, 1960, pp 1-15.
9224353
AEC-CRNL-TF-71

Sci-Phys
Aug 64
265,159

Evolution of the Quantum Electronics with Gold.
by Gottfried Schottky, 15 pp.

GERMAN, per, Zeitschrift fuer Physik, Vol CLX,
No. 16, 1960, 9206073.

pp 16-32

AEC Tr 5619

Sci - Phys

230, 693

May 63

<p>Boroffka, Hartmut. PHOTOCONDUCTIVITY OF ANTHROACENE (Über die Photoleitung von Anthracaten). [1962] [26]p. 13 refs. Order from SLA \$2.60</p> <p>Trans. of <u>Zeitschrift für Physik</u> (West Germany) 1960, v. 160 [no. 1] p. 93-108.</p> <p>DESCRIPTORS: *Anthracenes, *Photoconductivity, Electrodes, Photoelectric materials, Single crystals, Growth, Light, Intensity, Polarization, Illumination, *Semiconductors.</p> <p>(Physics--Solid State, ITT, v. 9, no. 4)</p>	<p>62-14302</p> <p>I. Boroffka, H.</p> <p>62-14302</p> <p>Office of Technical Services</p> 
---	---

Spectral Investigations in the Wavelength Region
Around 1 mm. VI. Design of a Pulsed Mass Radiator
and Its Characteristics as a Spectroscopic Radiation
Source, by Wilfrid Eckhardt, 26 pp.

GERMAN, per, Zeitschrift fuer Physik, Vol CLX,
1960, pp 121-143.

CIA/FDD XX-1317
NO FOREIGN DISSEM
SLA 63-10274

Sci
Jan 1963

218, 813

USIB INTERNAL USE ONLY

Spectrum, Zeeman Effect and Electron Levels of
Trivalent Radium in Crystalline Salts, by XXX
KIRKON X. H. Hellwege, G. Befner, H. G. Kahle,
18pp.

Vol CLX

GERMAN, per, Z für Physik, No 160, 1960, pp 149-161.
9800968

ABD-tr-5396

220, 83L

Sci -Phys
Jan 63

<p>Kluge, J., Stasiw, O., and Sueptitz, P. A DIRECT PROOF OF THE WANDERING OF DEFECT-ELECTRONS IN SILVER CHLORIDE. [1961] 14p. (3 figs, omitted) 22 refs. Order from SLA \$1.60</p> <p>Trans. of [Zeitschrift für Physik] (West Germany) 1960, v. 160, p. 363-373.</p> <p>DESCRIPTORS: *Silver compounds, *Chlorides, Photoelectrons, Crystals, *Electrons, Conductivity, Drift, Motion.</p> <p>In an examination of the characteristics of photoelectrons at room temperatures with the help of the Haynes-Shockley impulse method, an effect was noted in AgCl crystals subjected to a particular previous treatment, from which one can ascertain that it is caused by the wandering of defect electrons. An area appears through which a large number of photoelectrons pass. (Physics, TT, v. 8, no. 3) (over)</p>	<p>62-10535</p> <p>I. Kluge, J. II. Stasiw, O. III. Sueptitz, P.</p> <p>62-10535</p> <p>Office of Technical Services</p>
---	--

The Mass Spectrum of the Uncharged Fragments From
Electron Bombardment of Molecules, by D. Beck,
O. Oamberghaus, 25 pp.

GERMAN, per, Z fuer Physik, Vol CLX, 1960, pp 406-419.
9061353

AEC UCRL-Trans-692
170, 215

Sci - Phys
Oct 61

The Attachment of Radioactive Atoms on Aerosols
(Particle Dusts), by Lars Lassen, Gunter Rau, 22 pp.

GERMAN, per, Z fuer Physik, Vol CLX, 1960,
pp 504-519.

CIA 9675947

Sci

Mar 62

188, 031

CEA-tr-A-1085 Unc1.

FIXATION D'ATOMES RADIOACTIFS SUR DES AÉROSOLS.
(Fixation of Radioactive Atoms on Aerosols).
Lars Lassen and Guenter Rau. Translated into
French from Z. Physik, 160: 504-19(1960);
33p.

Chemistry; Physics; Translations MC-4

C-4 NP NSA Dep.(mc); \$3.60(fs), \$1.19(mf)
JCL

N-4

<p>Blitz, H., Genzel', L., and Happ, H. ON THE INFRARED DISPERSION OF ALKALI HALIDES. I. INTERPRETATION OF THE SPECTRA ACCORDING TO THE THEORY OF BORN AND HUANG. [1962] 28p. 35 refs. Order from SLA \$2.60</p> <p>Trans. of <i>Zeitschrift für Physik</i> (West Germany) 1960, v. 160, p. 535-553.</p> <p>DESCRIPTORS: *Alkali metals, Lithium, Sodium, Cesium, *Halides, *Crystal structure, *Infrared spectroscopy, Quantum mechanics.</p> <p>The infrared spectra of LiF, NaCl and CsBr are interpreted according to the dispersion theory of Born and Huang. This theory takes account of anharmonic terms in the lattice potential and leads to a frequency-dependent damping which describes the absorption.</p> <p>(Physics -- Spectroscopy, TT, v. 8, no. 7) (over)</p>	<p>62-14150</p> <p>I. Blitz, H. II. Genzel', L. III. Happ, H. IV. Title: Interpretation ...</p> <p>Office of Technical Services</p>
---	---

The Deposition of Radioactive Atoms on Monodisperse
and Polydisperse Aerosols, by L. Lassen, G. Rau,
et al, 69 pp.
GERMAN, per, Z fuer Physik, 1960, 1961. 9224648
AEC-UR-Tr-647

Sci-Phys
Sep 64

267,321

<p>Gobrecht, H. and Tausend, A. OPTICAL PROPERTIES AND BAND MODEL OF SELENIUM. Nov 61, 25p. 36 refs. Order from SLA \$2.60</p> <p>Trans. <i>Zeitschrift für Physik</i> (West Germany) 1961, v. 161, p. 205-220.</p> <p>DESCRIBE AS: *Selenium, Glass, Crystals, *Optical properties, Determination, *Crystal structure, Models (Statistical).</p> <p>The optical constants of amorphous selenium and of single crystal selenium were measured between 0.4 and 23 microns. Characteristic bands were found which depended on the orientation of the E-vector with respect to the crystallographic Z-axis. A band model of both forms of selenium is described on the basis of the measurements and some theoretical work. (Author) (Physics--Solid State, TT, v. 10, no. 2)</p>	<p>63-10917</p> <p>I. Gobrecht, H. II. Tausend, A.</p> <p>63-10917</p> <p>Office of Technical Services</p>
--	--

62-14459

Bonse, U.
MEASUREMENTS OF ANOMALOUS TRANSMISSION
AND X-RAY REFLECTION ON HIGH-QUALITY
GERMANIUM SINGLE CRYSTALS IN THE BRAGG
CASE OF INTERFERENCE: COMPARISON WITH THE
DYNAMIC THEORY OF X-RAY INTERFERENCES.
[1962] [32]p. 33 refs.
Order from SLA \$3.00

I. Bonse, U.
II. Title: Comparison...

62-14459

Trans. of Zeitschrift für Physik (West Germany) 1961,
v. 161, no. 3, p. 310-329.

DESCRIPTORS: *Single crystals, *Germanium, X-ray
diffraction analysis, Transmission, Reflection,
Interference, Dynamics, Theory.

(Physics--Solid State, TT, v. 9, no. 3)

Office of Technical Services

The Attachment of Radioactive Atoms to Aerosol
Particles, in the Particle Range From 0.7 to
5 Radius, by Lars Lassen, Herman Weicksel,
11 pp.
GERMAN, per, Z fuer Physik, Vol CLXI, 1961,
pp 339-345.
Navy Tr 3887/NRL 985

Sci & Phys
ASep 64

266,299

Kulenkampff, H. and Zinn, W.
POLARIZATION OF THE X-RAY CONTINUOUS
RADIATION FROM THIN TARGETS AT 35 AND
45 ke V. [1962] 15p.
Order from K-H \$15.75 K-H 11396-e

Trans. of Zeit[schrift] für Physik (West Germany)
1961, v. 161, p. 428-435.

DESCRIPTORS: *X-rays, Targets, Polarization.

(Physics, TT, v. 8, no. 4)

62-17410

I. Kulenkampff, H.
II. Zinn, W.
III. K-H- 11396-e
IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Concerning Thin Hydrocarbon Layers Formed
by Electron or Ion Bombardment, by
H. Koenig, G. Helwig.
GERMAN, per, Z. fur Physik, Vol 129,
1951, pp 491-503.
*BISI 4161

Sci-M/N
May 65

278,835

Measurement of Excitation Temperatures in a High-
Current Hollow Cathode, by P.A. Biologiya.
GERMAN, per, Z.Phys, 216, 1968, pp 248-260.
*AEC

Phys
July 69

Dissociation and Charge Exchange of Hydrogen
and Deuterium Molecules During Passage Through
Hydrogen, by Albert Schmid. 15 pp.

GERMANY, pcc, Zeitschrift fuer Physik, Vol CLXI,
1961, pp 550-559. 9207631

ABC-Tr-5733

Sci " Phys
6 July 63

231,859

H. Diehl

Concerning the Three-Body Problem in Quantum
Mechanics. Part I. Fundamentals.
GERMAN, per, Zeitschrift fuer Physik, Vol 162,
1961, pp 1-14
NTC 72-60364-20J

sept 72

Focusing Sequences of 110-Collisions in Face-Centered Cubic Crystals at Small Angles, by C. Lehmann, G. Leibfried, 23 pp.

GERMAN, per, Z Physik, Vol CLXII, 1961, pp 203-214.
9093440

U. S. Atomic Energy Authority
AEC, Hanwell Tr-885

AEC-A1-Tr-24

(9220424)

197, 842

Sci - Phys
Jun 62
List 69

Superconductivity Experiments in the Niobium - Tin System and in the Nb₃Sn- Ta₃Sn Mixed Crystal System, by H. G. Jansen, 21 pp.

GERMAN, per, Z Physik, Vol CLXII, 1961, pp 275-289.

70897022

AEC Tr-5123

Sci - Phys
Aug 62
List 71

206,080

Theory of Molecular Beam Formation With Long
Channels, by Gerhard Becker, 24 pp.

GERMAN, per, Zeitschrift fuer Physik, No. 162,
1961, pp 290-312, 9207659.

Vol CL+1

ABC-Tr-569k

Sci - Phys
Jun 63

231896

<p>Moser, H. E. and Uerth, H. G. THE FERROELECTRIC PROPERTIES OF DIFFERENT REGIONS OF ROCHELLE SALT CRYSTALS. [1963] 28p. 15 refs. Order from SLA \$2.60</p> <p>Trans. of Zeitschrift für Physik (West Germany) 1961, v. 162, p. 313-328.</p> <p>DESCRIPTORS: "Ferroelectric crystals, Salts, Single crystals, "Crystal growth, Dielectric properties, "Ammonium radicals, "Sodium compounds, "Tartaric acid, "Potassium compounds, Impurities.</p> <p>Rochelle salt single crystals contain various regions which differ in their dielectric properties (Curie temperature, maximum dielectric constant, shape of hysteresis loop). Every region consists of the crystal parts where, during growth, the material has been (Physics--Solid State, TT, v. 10, no. 9) (over)</p>	<p>68-16564</p> <p>I. Moser, H. E. H. Uerth, H. G.</p> <p>Office of Technical Services</p>
---	--

TT-63-20848

Mollwo, E.
THE RELATION BETWEEN THE ELECTRICAL
DARK CONDUCTIVITY AND THE GREEN LUMI-
NESCEENCE OF ZnO-CRYSTALS. [1964] 11p
(figs formulae omitted) 18refs
Order from SLA \$1.60

TT-63-20848

Trans. of Zeitschrift für Physik (West Germany)
1961, v. 164, p. 557-569.

(Physica--Solid State, TT, v. 12, no. 2)

I. Mollwo, E.

Office of Technical Services

Determination of the Absorption Coefficient and
the Refractive Index for Colloidal Gold, by
H. Römer, C. V. Fragstein.
GERMAN, per, Zeit fur Physik, No 163, 1961,
pp 27-43.
MLL Ref:9022.81 (2578)

Sci-Chem
Feb 70

401,485

The Behavior of the Resistance of Very Thin Bismuth
Films, in Particular With Respect to the Adsorption of
Oxygen, by Werner Ort, 15 pp.
GERMAN, per, Z fuer Physik, Vol CLXIII, 1961,
pp 230-239. 9226131
AEC-UCRL-Tr-1116(L)

Sci-Phys
Jan 65

270,620

The Microfield in a Plasma, by K.
Hunger, R. W. Larenz.

GERMAN, per, Z. fuer Physik, Vol CLXIII, 1961,
pp 245-261.

GB/4/T/1669

Sci
Dec 62

Theory of Bremsstrahlung in High-Temperature
Plasmas, by Jürgen Stickforth.
GERMAN, per, Zeitschrift fur Physik, Vol 164,
1961, pp 1-20. N911020966
AEC UCRL-tr-10065

Sci/Physics
Sep 66

309,364

R-6310-E

Dec. 2, 65

Quantenmechanische und diskrete Photoelektronenemission
bei Elektronenfeld
by: Wolfgang Heisenberg
Proceedings der Physik 164, 1961 pp 222-226 (7pp)

Document - copy for whom:

Type 1 original and 1 carbon copy.
Document may be cut for postage.

AEC

(UCRL-Trans-1433) MEASUREMENT OF DISORDER ENERGY OF QUENCHING CONDENSED METAL FILMS AT LOW TEMPERATURE. Moench, Winfried. Translated for Univ. of California, Lawrence Radiation Lab., Berkeley, from Z. Phys.: 164: 229-42(1961). 18p.

physics (solid-state); translations

ND-34 P RC

Unlimited

Formulas for the Representation of the Ionization
Cross-Sections for Electron Collision,
by Hans Werner Drawin, 10 pp.
GERMAN, per, Z fuer Physik, Vol CLXIV, 1961,
pp 513-5201. 9226663
AEC-UCRL-Tr-1161(L)

Sci-Phys
Feb 65

273,184

On the Field Emission Theory for Cold, Evaporating
Cathodes, by A. Binner.

GERMAN, PIER, Z. fur Physik, Vol CLXIV, Part I, 1961,
pp 563-573.

KRIE, Ft Belvoir T-1628
(Ref. 262)

Sci - Phys
Jun 8 63

220, 725

Isotope Separation by Means of an Electric Mass
Filter, by F. V. Busch, W. Paul, 11 pp.

GERMAN, per, Z. fuer Physik, Vol CLXIV, 1961,
pp 531-537. 9093259

AEC TR-4937

Sci - Phys
Apr 62

190,379

Nonlinear Resonances in Electrical Mass Filters
is a Consequence of Field Errors, by F. V. Busch,
.. Paul, 11 pp.

FERMILAN, per, Z. fuer Physik, Vol CLKIV, 1961,
pp 583-594. 9093328

ABC Tr-4986

Sci - Phys
Apr 62

191,304

Associations of Color Centers with (100)-Symmetry
(A and B Centers), by Fritz Lüty, 20 pp.

GERMAN, per, Zeitschrift für Physik, Vol CLXV,
1961, pp 17-35.

Navy #: 3410/ERL 938

Ref - Phys
Item 63

231,928

On the Field Excitation Theory for Cold,
Evaporating Cathodes, by A. Bauer.

GERMAN, JAR, Z. fur Physik, Vol CLXV, Part II,
~~pp 31-45, 1961.~~

ERIL, Ft Belvoir T-1628
C-1

Sci - Phys
Jan 63

220, 726

Derivation of 21 New Short-Lifetime Isomers by
Means of Nuclear Photoreactions, 172 and 21 pp.
GERMAN, per, Zeitschrift fuer Physik, No 165,
1961, pp 99-120.

Navy Nr 3366/NRL 928*

Sci - Nuclear Sci & Tech
Apr 63

229, 143

Behavior and Optical Properties of Various
Dielectric Substances Deposited by Evaporation,
by G. Henschel, K. Eroba, 7 pp.
GERMAN, pwr, Zeditschrift für Physik, Vol 165,
1961, pp 213-217. 1511279767
AEC SC I-67-0932

336,985

Sci - Physics
Sep 67

Electron-Nuclear Double-Resonance
Spectra of F-Centers in Alkali Halides,
by H. Seidel.
GERMAN, per, Zeitschrift fuer Physik,
Vol 165, 1961, pp 218-238
NTC 72-11590-20B
NASA TT F-11,445
Government use only
June 72

371,143

Dynamics of Steady Electron-Nuclear
Double-Resonance of F-Centers in
Alkalihalide Crystals, by H. Seidel.
GERMAN, per, Zeitschrift fuer Physik,
Vol 165, 1961, pp 239-252
NTC 72-11589-20B

June 72

Theoretical Investigation about the Position of
Interstitials in Copper, by K. H. Bennemann.
GERMAN, per, Z Physik, No 165, 1961, pp 445-463.
*NBS TT 70-57515

Sci-Mat
Aug 70

Visible and Ultraviolet Radiation Emitted
from Metals by the Action of Electrons.
Radiation from Bulk Metal Specimens,
by H. Boersch, C. Radeloff, et al, 26 pp.
FOR OFFICIAL USE ONLY
GERMAN, per, Z fuer Physik, Vol CLXV, 1961,
p 464. 9699862
ESTC 381-T65-665

Sci - NS
Mar 66

297,779

S-935/63

The Direct Measurement of Stacking Fault Energies,
by R. Siems, P. Delavignette, 35pp.

GERMAN, per, Zeitschrift fuer Physik,
Vol CLXV, 1961, pp 502-532.

*JPRS/SF-2868
(Special)

Sci - M/N
Oct 63

Trans. of *Z[eitschrift für] Physik* (West Germany)
1962, v. 166, p. 76-80.

DESCRIPTORS: *Selenium films, *Magneto-optic rotation.

62-22145

- I. Gobrecht, H.
 - II. Tausend, A.
 - III. Bach, I.
 - IV. ATS-76P01G
 - V. Associated Technical Services, Inc., East Orange, N. J.

(Physics--Solid State, TT, v. 8, no. 7)

Office of Technical Services

Effective Collision Cross Sections in Scattering
Experiments, by K. Berkling, R. Helbing, et al.
GERMAN, per, Z fuer Physik, Vol CLXVI, 1962,
pp 406-428.
NASA TT F-8880

P E C / M L M - 1741

Sci-Phys
Jul 64
U.S. GOVERNMENT ONLY

262,876

Computation of the Temperature Distribution and
Characteristics of a Cylindrical Nitrogen Arc,
by G. Schmitz, J. Uhlenbusch.
GERMAN, per, Zeit Physik, Vol CLXVI, 1962,
pp 460-467.
NASA TT F-10,194

U. S. GOVERNMENT USE ONLY

Sci-Phys

Aug 66

309,652

Other References to Name in Correspondence from National
Research Council, 12 pp. 10 Feb., 1962, 1000-1000-1000-
S. Classification: ~~SCI~~; 34 pp.

REF ID: A6448458
PP 477-493: 9212438

AMERICAN PHYSICAL SOCIETY

Sci - Phys

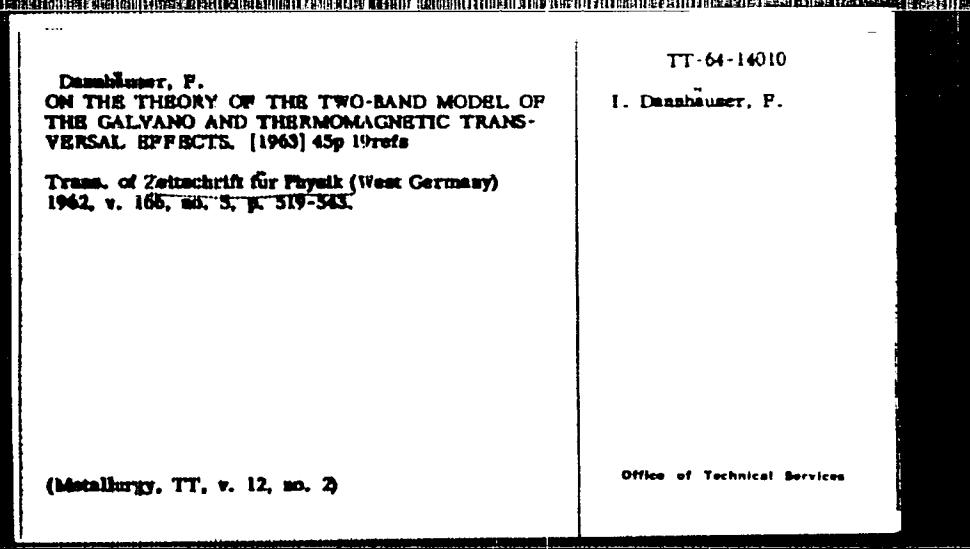
201.427

Aug 65

Statistics of the Localised and Non-Localised Spin
Deviations in the Spin Wave Theory, by D. Frank, 17 pp.
GERMAN, per, Z fuer Physik, Vol CLXVI, 1962,
pp. 494-503.
AEC-NP-Tr-1088

Sci-Phys
Mar 64

252,991



(ORNL-tr-2553) PRODUCTION OF NEW ISOMERIC STATES THROUGH PHOTONUCLEAR REACTIONS IN ANTIMONY AND IN THALLIUM. Engelmann, R.; Hepp, V.; Kluge, E.; Krehbiel, H.; Meyer-Berkhout, U. ¹⁰Translated by R. Gregg Mansfield (Oak Ridge National Lab., Tenn.), from ¹⁵Z. Phys.; 168: 544-52 (1962). 2013p. 24Dep. NTIS.

26physics (nuclear); translations 2720H

28MN-34 ,P NSA